

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647002

Luminaire Tested: **GALN-SA6C-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26851.4 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

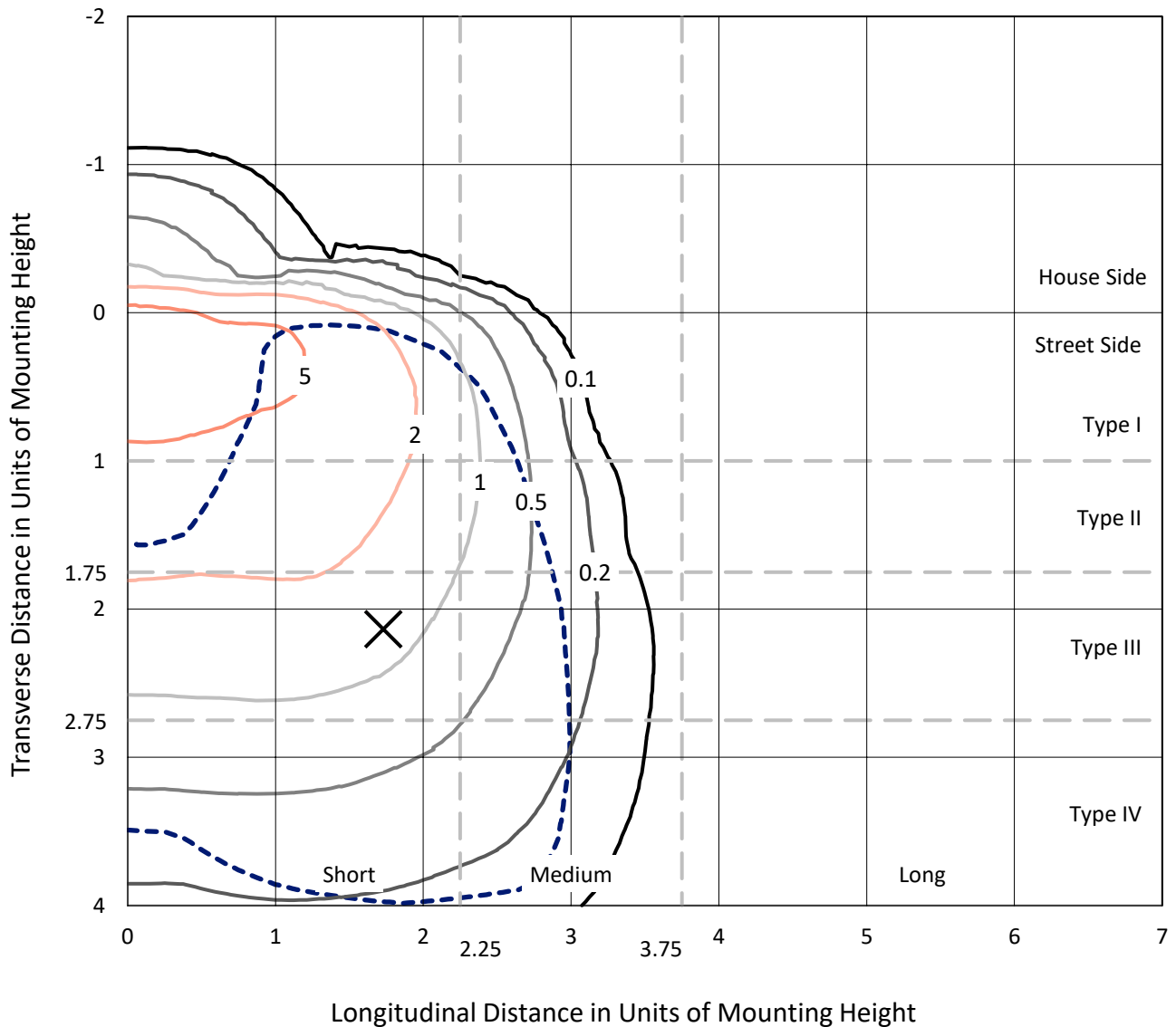
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

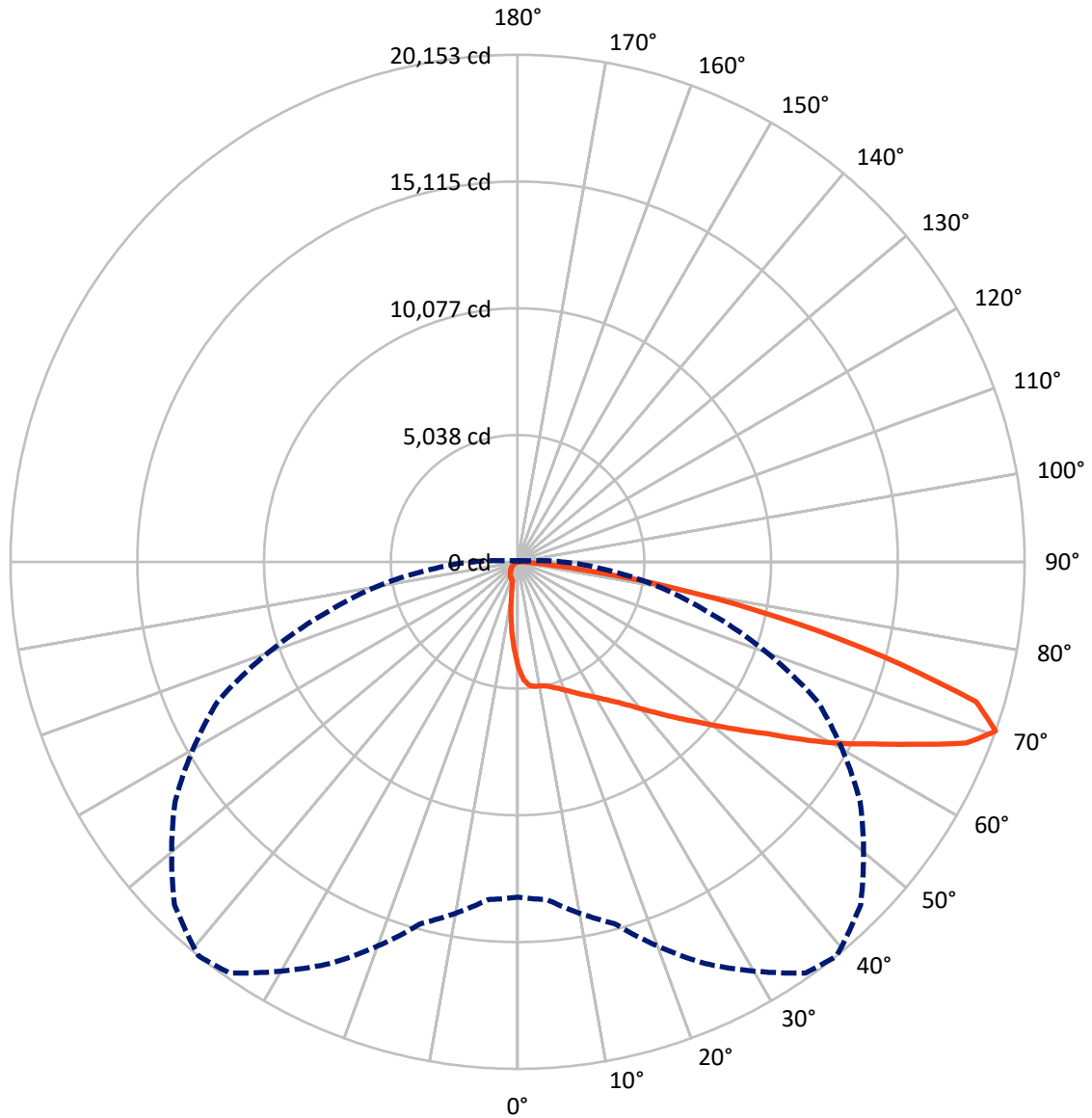
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.9	0.0	1750.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	25100.6	0.0	25100.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	26851.4	0.0	26851.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.4	1.3
10°-20°	928.7	3.5
20°-30°	1555.8	5.8
30°-40°	2412.8	9.0
40°-50°	3823.6	14.2
50°-60°	5604.8	20.9
60°-70°	7184.0	26.8
70°-80°	4514.2	16.8
80°-90°	470.3	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26851.4	100.0
0°-180°	26851.4	100.0

Coefficient of Utilization



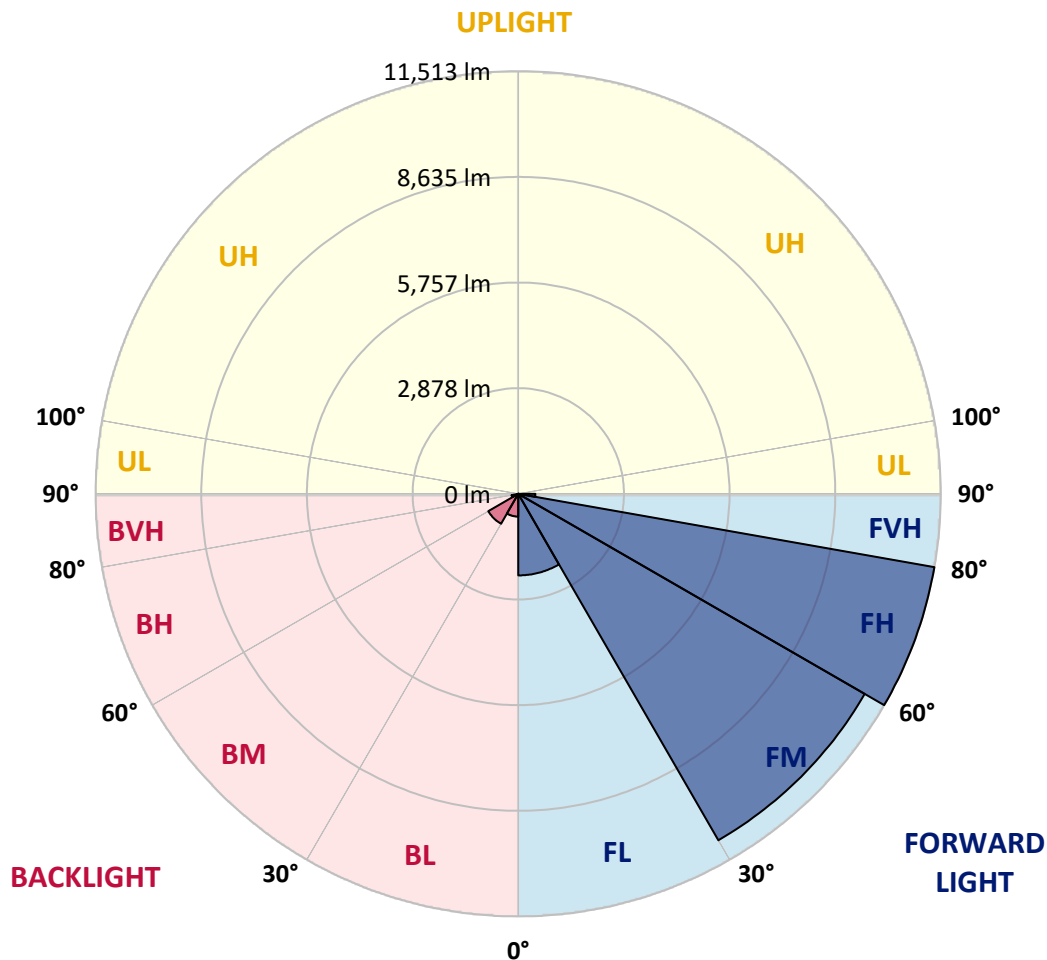
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2221.8	8.3			
FM (30°-60°)	10898.9	40.6			
FH (60°-80°)	11513.0	42.9			G4/12000
FVH (80°-90°)	466.8	1.7			G3/500
BL (0°-30°)	620.0	2.3	B2/1000		
BM (30°-60°)	942.3	3.5	B1/1000		
BH (60°-80°)	185.2	0.7	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8
2.5°	4841.1	4824.8	4803.2	4777.9	4705.8	4693.1	4649.8	4557.8	4447.8	4357.6	4233.1
5°	5070.2	5079.3	5063.0	5017.9	4965.6	4934.9	4880.8	4738.2	4595.7	4413.5	4209.6
7.5°	5122.6	5140.6	5120.8	5077.5	5026.9	4994.5	4951.2	4828.5	4662.5	4455.0	4175.3
10°	5117.2	5138.8	5126.2	5086.5	5045.0	5014.3	4967.4	4870.0	4736.4	4518.1	4186.2
12.5°	5108.1	5137.0	5135.2	5115.4	5081.1	5057.6	5028.7	4942.1	4817.6	4610.1	4245.7
15°	5082.9	5119.0	5151.4	5167.7	5169.5	5169.5	5133.4	5041.4	4922.3	4731.0	4323.3
17.5°	5093.7	5135.2	5216.4	5263.3	5295.8	5292.2	5254.3	5155.1	5023.3	4855.5	4404.5
20°	5160.5	5216.4	5330.1	5423.9	5456.4	5445.6	5395.0	5279.6	5129.8	4962.0	4483.8
22.5°	5324.7	5375.2	5517.7	5627.8	5651.3	5622.4	5550.2	5393.2	5257.9	5077.5	4579.5
25°	5570.1	5629.6	5761.3	5844.3	5844.3	5828.1	5727.1	5543.0	5402.3	5238.1	4704.0
27.5°	5867.8	5918.3	6048.2	6122.2	6078.9	6032.0	5931.0	5709.0	5573.7	5440.2	4853.7
30°	6169.1	6201.6	6338.8	6371.2	6326.1	6266.6	6158.3	5936.4	5817.3	5714.4	5070.2
32.5°	6454.2	6524.6	6638.3	6631.1	6569.7	6540.9	6441.6	6205.2	6138.5	6127.6	5373.4
35°	6739.3	6793.5	6894.5	6919.8	6865.7	6860.2	6788.1	6613.0	6614.8	6685.2	5846.2
37.5°	6984.7	7033.5	7152.5	7208.5	7219.3	7246.4	7217.5	7102.0	7266.2	7459.2	6472.3
40°	7190.4	7259.0	7410.5	7508.0	7619.8	7719.0	7724.5	7749.7	8079.9	8411.9	7289.7
42.5°	7351.0	7446.6	7666.7	7847.2	8103.4	8229.7	8330.7	8469.7	9025.5	9521.7	8253.2
45°	7560.3	7670.3	7944.6	8227.9	8628.5	8836.0	8976.7	9348.4	10137.0	10813.5	9242.0
47.5°	7906.7	7964.4	8244.1	8657.4	9184.2	9480.2	9754.4	10317.4	11329.6	11935.9	10064.8
50°	8352.4	8390.3	8601.4	9175.2	9857.3	10247.0	10746.8	11409.0	12567.4	12867.0	10530.3
52.5°	8845.0	8857.6	9016.4	9745.4	10611.5	11102.3	11661.6	12479.0	13576.0	13530.9	10838.8
55°	9417.0	9399.0	9534.3	10364.3	11504.6	12065.8	12717.2	13574.2	14451.2	14001.9	11015.6
57.5°	10072.0	10023.3	10155.0	11185.3	12648.6	13319.8	13982.0	14519.7	15129.6	14397.0	11100.4
60°	10757.6	10660.2	10817.2	12107.3	13996.5	14633.4	15183.8	15328.1	15844.2	14711.0	10954.3
62.5°	11304.3	11306.2	11598.5	13088.9	15382.3	15939.8	16232.1	16362.0	16459.4	14642.4	10185.7
65°	12157.8	12186.7	12654.1	14451.2	16986.3	17469.9	17670.2	17247.9	16486.5	13790.8	9030.9
67.5°	13038.4	13130.4	13985.6	16327.7	18839.4	19229.1	18971.2	17419.4	15750.4	11847.5	6847.6
70°	13325.3	13476.8	14886.0	17619.6	19950.9	20153.0	19279.7	16620.0	13166.5	7921.1	3446.4
72.5°	12210.2	12455.6	14368.2	17148.7	19241.8	19066.8	17249.7	13938.7	8370.4	3007.9	1052.0
75°	8610.4	8718.7	11941.3	14225.6	15476.1	14979.9	13121.4	8985.8	3442.8	844.5	360.9
77.5°	4446.0	4393.6	7102.0	9438.7	11037.3	10523.1	8592.4	4651.6	1304.6	351.9	223.7
80°	2298.7	2336.6	3072.8	4945.7	6737.5	6199.8	4581.3	2156.2	694.7	194.9	171.4
82.5°	1288.3	1209.0	1766.4	2159.8	3150.4	2470.2	1757.4	1526.5	303.1	117.3	162.4
85°	234.6	245.4	969.0	1167.5	1093.5	694.7	566.6	1019.5	88.4	65.0	113.7
87.5°	3.6	3.6	187.7	335.6	212.9	97.4	178.6	146.2	18.0	25.3	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8	4189.8
2.5°	4169.9	4101.4	3973.3	3846.9	3686.3	3554.6	3466.2	3374.2	3280.4	3287.6	3309.2
5°	4097.8	3978.7	3726.0	3459.0	3202.8	2971.8	2744.4	2540.5	2457.5	2381.7	2385.4
7.5°	4025.6	3857.8	3487.9	3069.2	2681.3	2287.9	2002.8	1768.2	1643.8	1549.9	1522.9
10°	3993.1	3771.2	3269.5	2693.9	2143.6	1714.1	1347.9	1156.6	1008.7	961.8	974.4
12.5°	4007.5	3727.9	3072.8	2354.7	1699.7	1194.5	938.3	840.9	808.4	803.0	799.4
15°	4034.6	3697.2	2879.8	1979.4	1248.7	887.8	788.5	770.5	766.9	763.3	765.1
17.5°	4070.7	3670.1	2674.1	1627.5	958.2	775.9	747.0	738.0	736.2	736.2	736.2
20°	4106.8	3639.4	2444.9	1313.6	799.4	732.6	714.6	709.1	707.3	707.3	705.5
22.5°	4148.3	3612.4	2212.1	1032.1	736.2	701.9	685.7	682.1	680.3	678.5	678.5
25°	4207.8	3578.1	1964.9	844.5	696.5	673.1	656.8	653.2	651.4	644.2	646.0
27.5°	4287.2	3552.8	1710.5	729.0	660.4	637.0	626.1	620.7	617.1	611.7	613.5
30°	4395.4	3531.2	1439.9	665.8	618.9	599.1	588.2	584.6	581.0	575.6	575.6
32.5°	4583.1	3540.2	1154.8	615.3	581.0	557.6	546.7	543.1	539.5	534.1	534.1
35°	4864.5	3592.5	923.9	572.0	535.9	512.5	501.6	501.6	496.2	489.0	487.2
37.5°	5324.7	3726.0	741.6	530.5	492.6	471.0	458.3	454.7	449.3	438.5	436.7
40°	5867.8	3933.6	624.3	489.0	452.9	431.3	420.4	409.6	395.2	384.3	382.5
42.5°	6549.9	4146.5	541.3	447.5	415.0	395.2	382.5	364.5	342.8	328.4	326.6
45°	7260.8	4341.3	485.4	409.6	378.9	362.7	348.3	319.4	292.3	274.3	272.5
47.5°	7791.2	4377.4	440.3	373.5	348.3	332.0	312.2	276.1	240.0	223.7	218.3
50°	8042.0	4202.4	393.4	337.4	317.6	299.5	274.3	232.8	193.1	173.2	169.6
52.5°	8130.5	3899.3	355.5	304.9	286.9	265.3	234.6	187.7	151.6	131.7	129.9
55°	8094.4	3516.7	321.2	274.3	250.8	225.6	194.9	149.8	111.9	95.6	92.0
57.5°	7904.9	3029.5	286.9	243.6	214.7	189.5	155.2	111.9	75.8	61.4	59.5
60°	7394.3	2365.5	252.6	209.3	182.2	155.2	122.7	79.4	46.9	34.3	34.3
62.5°	6531.8	1755.6	220.1	175.0	153.4	124.5	86.6	50.5	25.3	18.0	16.2
65°	5458.2	1295.6	184.1	148.0	128.1	97.4	61.4	30.7	12.6	5.4	3.6
67.5°	3809.0	799.4	153.4	120.9	104.7	70.4	37.9	12.6	5.4	0.0	0.0
70°	1730.4	380.7	117.3	92.0	79.4	50.5	19.8	7.2	3.6	0.0	0.0
72.5°	537.7	200.3	83.0	66.8	54.1	32.5	10.8	5.4	3.6	0.0	0.0
75°	249.0	128.1	52.3	36.1	30.7	16.2	7.2	3.6	1.8	0.0	0.0
77.5°	185.9	99.2	30.7	19.8	16.2	10.8	5.4	3.6	1.8	0.0	0.0
80°	162.4	50.5	18.0	12.6	9.0	7.2	3.6	1.8	0.0	0.0	0.0
82.5°	146.2	25.3	10.8	7.2	5.4	3.6	1.8	1.8	0.0	0.0	0.0
85°	79.4	14.4	7.2	5.4	3.6	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	14.4	7.2	5.4	3.6	3.6	1.8	1.8	1.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)